

ABSTRACT

The invention relates to a method for increasing the bending strength and the endurance limit of crankshafts by locally restricted hammering in areas of high stress, such as grooves, the mouths of bores and cross-sectional transition zones, in which method pressure impulse machines or beating devices comprising heating tools are employed. The pressure impulse machines or beating devices only execute a relative displacement of the beating tool against the surface of the crankshaft segment to be processed when the compressive stress is introduced between the heating tool and said surface of the crankshaft segment to be processed. The invention also relates to a device for increasing the endurance limit of crankshafts.